

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-33. Cancelled.

34. (Original) A method for inhibiting neoplastic cell proliferation in an animal comprising administering to an animal having at least one neoplastic cell present in its body a therapeutically effective amount of the agent of claim 1.
35. (Original) A method for inhibiting neoplastic cell proliferation in an animal comprising administering to an animal having at least one neoplastic cell present in its body a therapeutically effective amount of the oligonucleotide of claim 3.
36. (Original) The method according to claim 35, wherein the animal is a human.
37. (Original) The method according to claim 35, further comprising administering to the animal a therapeutically effective amount of a histone deacetylase small molecule inhibitor with a pharmaceutically acceptable carrier for a therapeutically effective period of time.

38-43. Cancelled.

44. (Original) A method for inhibiting cell proliferation in a cell, comprising contacting a cell with at least two reagents selected from the group consisting of an antisense oligonucleotide that inhibits a specific histone deacetylase isoform, a histone deacetylase small molecule inhibitor that inhibits a specific histone deacetylase isoforms, an antisense oligonucleotide that inhibits a DNA methyltransferase, and a DNA methyltransferase small molecule inhibitor.
45. (Original) A method for modulating cell proliferation or differentiation of a cell comprising inhibiting a specific HDAC isoforms that is involved in cell proliferation or differentiation by contacting the cell with an agent of claim 1.
46. (Original) The method according to claim 45, wherein the cell proliferation is neoplasia.
47. (Original) The method according to claim 46, wherein the histone deacetylase isoform is selected from the group consisting of HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-6, HDAC-7 AND HDAC-8.
48. (Original) The method according to claim 47, wherein the histone deacetylase isoform is HDAC-1 and/or HDAC-4.